



U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

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MEMORANDUM

TO: Lorenzo Thantu, RPM

FROM: Robert M. Alvey, P.G.

DATE: June 30, 2017

SUBJECT: Field Visit – June 27, 2017
Navy Drill Sites – Northrop/Grumman- Navy Bethpage
Bethpage, NY

I conducted an informal field visit Tuesday June 27 at the two currently operating drill rig locations as part of the Navy's OU-2 work on the Northrop-Grumman/Navy Bethpage project. Both projects use the contract with Delta Drilling Co, and the drillers and rigs appear suitable for the work. Vin Varricchio and Valerie Thayer are the geologists for AECOM logging the holes.

1. VPB 143 and monitoring well installation
5 St. Martin Street by 23 Laurel Place, Bethpage

This rig completed VBP 143 and the well had a gamma log taken. The depth of the boring was reported at 893 fbgs. Subsequently, 3 monitoring wells are planned.

RE 109 D1 screen 515-535 To start after D2 completed
RE 109 D2 screen 550-570 In progress @ roughly 500 ft depth
RE 109 D3 screen 580-600 Completed

Discussion with Vin Varricchio, geologist. The rig has been at this location the past few months. No significant issues or complaints from neighbors. Site appears secure and does not significantly restrict local traffic. Signs are appropriate. They are awaiting approval of the next drilling location. Logistics have become highly administratively complex due to local government concerns.

2. VPB 169.
Nassau County Stormwater Basin 26
3775 Hempstead Tpke, Levittown

Discussion with Valerie Thayer, geologist. This rig is in process of completing VPB 169 after

which a gamma log of the hole will be made and selection of screen zones for potential monitoring wells made. The rig was at a depth of 1028 fbs, and viewing the sample jars and bags of recovered soils indicated an uncertainty whether the actual Raritan clay/confining layer had been reached. The rig is located within Nassau County Stormwater Storage Basin 26 and is carefully leveled on the concrete access road leading to the bottom of the basin. No obstructions of sidewalk or street. Geologist reported that NYSDEC RPM, Jason Pelton, was anticipated to pick up some samples to discuss with USGS. Refer to site photos below for general views of the rigs.



Drill Rig set-up for VPB 143 5 St Martin St, Bethpage 6/27/2017



VBP169 NCDPW Basin 26 Levittown (looking east along fence)



VBP169 Drill rig NCDPW Basin 26, Levittown (Viewing North from gate)



VPB169 NCDPW Basin 26 detail of leveled rig